

## **ABSTRACT OF THE DISCLOSURE**

1       The present invention provides a graphical user interface and software architecture  
2       that empowers the user to create new vectors, axes, points, coordinate systems, and other  
3       elements, and combinations thereof. The explicit means of creating coordinate systems  
4       and primitives are carried out via user input, imported data from files, or any other means  
5       of supplying numerical data to computer programs. In addition to geometrical  
6       relationships, coordinate system definitions can describe rates of change in the primitives,  
7       thus providing additional ways to create vectors.